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Synthesis and properties of phosphabetaine structures: II. Synthesis and molecular structure of 3-(triphenylphosphonio)propanoate and its alkylation products

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Abstract

The structure of 3-(triphenylphosphonio)propanoate was studied, and the ability of proton-donor reagents to stabilize the betaine structure was demonstrated. The phosphobetaines are alkylated by alkyl halides to form (alkoxycarbonyl)alkyltriphenylphosphonium halides and acylated by acetyl bromides. Some features of the latter reactions were revealed.

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